

V O L V O

VOLVO FMX

New FMX 380/420/460

4x4/6x4/6x6/8x4 Rigid



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FMX 380 44R

TECHNICAL SPECIFICATION

Wheelbase	4900 mm
Front Axle Capacity	10000 kg
Rear Axles Capacity	13000 kg
Gross Vehicle Weight	23000 kg

ENGINE

VOLVO D13A-380 TURBOCHARGED, INTERCOOLER, EURO-4 EMISSION STANDARD (EU4SCR) BIODIESEL B30 CERTIFIED.

Max Output	380 hp (280 Kw) @ 1400 – 1900 rpm
Max Torque	1900 Nm @ 1000-1400 rpm
Number of Cylinders	6
Displacement	12.8 dm3
Cylinder bore x stroke	131 x 158 mm
Compression ratio	17.8 : 1
Economy rev. band	1000 – 1500 rpm
Volvo Engine Brake (EBR-VEB) with maximum 300 Kw Braking Power @ 2300 rpm.	

TRANSMISSION

VOLVO ATO2612

12 Speed electronically controlled splitter and range change gearbox with automated Gear Changing system with Overdrive, fitted with a Power Take Off and Oil Cooler as standard.	
Special heavy duty package (TRAP-HD) concern to reinforce Split Synchronizer, Main Gear Dog Clutches and Counter shaft brake.	
Maximum Torque :	2600 Nm
Top Gear	Overdrive
Number of forward gears	12
Number of reverse gears	4
Forward ratio range	11.73-0.78 : 1
Reverse ratio range	13.73-2.48 :1

CAB

Single day Cab
Air Conditioning
Red Safety Belts
Emergency Roof Hatch.

CLUTCH

Single, push-type clutch with large dry friction disc which offer good durability
Disc diameter 430 mm. Pneumatic operated electronically controlled.

POWER TAKE-OFF

High speed Gearbox Driven Power Take-off (Standard)
Engine Power Take-off (Optional)

TRANSFER CASE

Single stage distribution gearbox with Automatic Traction Control

FRONT AXLE & SUSPENSION

Type of Axle	FAA11
Type of Suspension	Parabolic Springs
Number of springs	3
Capacity	10 Tons
2 shock absorbers and front stabilizer.	

REAR AXLE & SUSPENSION

RSH1365 combined with RAD-L90

Rear Single Axle with Hub Reduction, combined with Parabolic suspension.	
Differential lock inter axles (front & rear) and inter wheels, Two Shock absorbers and Rear Stabilizer as standard.	
Type of Suspension	Volvo's patented S-shaped parabolic spring
Type of Spring	Parabolic – 4 leaf
Capacity	13 Tons
Final reduction ratio	5.41: 1

BRAKE SYSTEM

VOLVO BRAKE-ZV (Drum Brake Z-Cam)

Dual Circuit Full Air Brake System with Automatic Adjustment and Asbestos free liners.	
Auxiliary Parking Brake fitted as standard.	
Parking Brake	Manually Operated Parking Brake with Electric Button.
ABS (Antilock Braking System) and EBS (Electronic Braking System) fitted as standard.	

FUEL TANK

Right hand fitted Steel Fuel Tank with capacity 315 liters.

AD-BLUE TANK (EURO-4 ONLY)

Left hand fitted plastic fuel tank capacity 48 liters.

FRAME

Constant frame width of 850 mm behind the cab made of high tensile steel section height of 300 mm
flange width 90 mm. Web and flange thickness are 8 mm. Inner liner thickness 5 mm installed as standard.
All members are cold riveted.

TYRE OPTIONS

325/95R24 Tubeless tire Off Road Pattern.
Wheels : 8.5"x 24"
Spare wheel same type as front wheel.

STANDARD ACCESSORIES

Exterior :

Air Drier
Backup Alarm
Exterior Smoke Coloured Front Sun Visor
Front Close View Mirror
One Front Towing Devices
Steel Headlamp Protection
Steel Front Bumper
Two LED Beacon Lamp
Two Roof Mounted Single Tone Chrome Air Horn
Vertical pipe muffler outlet
V-Shape day Running Light

Interior :

Audio System
Basic Cruise Control
Driver seat with regular air suspension and arm rest
Electrical manually controlled air conditioning
Electrical window lift
Fire Extinguisher 3 kg
Mechanically adjustable steering wheel
Manual door locking
Medium level instrument cluster
12" High Resolution Colour Multi Information Display Instrument Cluster
Passenger seat
RED Safety belt
Rubber floor mats
Standard toolkit with 20T Hydraulic Jack
Tachograph
Telematic Gateway with 4G Modem and WLAN

*) accessories shown in the picture in this brochure may not be a part of standard equipment. VOLVO reserves the right to modify design and equipment for improvement without prior notification.

FMX 420 64R

TECHNICAL SPECIFICATION

Wheelbase	4300 mm (OB/Mineral) ; 4900 mm (Coal)
Front Axle Capacity	10000 kg
Rear Axles Capacity	32000 kg / 38000 kg
Gross Vehicle Weight	42000 kg / 48000 kg

ENGINE

VOLVO D13A-420 TURBOCHARGED, INTERCOOLER, EURO-4 EMISSION STANDARD (EU4SCR) BIODIESEL B30 CERTIFIED.

Max Output	420 hp (309 Kw) @ 1400 – 1900 rpm
Max Torque	2100 Nm @ 1000-1400 rpm
Number of Cylinders	6
Displacement	12.8 dm3
Cylinder bore x stroke	131 x 158 mm
Compression ratio	17.8 : 1
Economy rev. band	1000 – 1500 rpm
Volvo Engine Brake+ (EBR-VEB+) with maximum 375 Kw Braking Power @ 2300 rpm.	

TRANSMISSION

VOLVO ATO2612

12 Speed electronically controlled splitter and range change gearbox with automated Gear Changing system with Overdrive, fitted with a Power Take Off and Oil Cooler as standard.	
Special heavy duty package (TRAP-HD) concern to reinforce Split Synchronizer, Main Gear Dog Clutches and Counter shaft brake.	
Maximum Torque :	2600 Nm
Top Gear	Overdrive
Number of forward gears	12
Number of reverse gears	4
Forward ratio range	11.73-0.78 : 1
Reverse ratio range	13.73-2.48 :1

CAB

Single day Cab
Air Conditioning
Red Safety Belts
Emergency Roof Hatch.

CLUTCH

Single, push-type clutch with large dry friction disc which offer good durability
Disc diameter 430 mm. Pneumatic operated electronically controlled.

POWER TAKE-OFF & HYDRAULIC PUMP

High speed Gearbox Driven Power Take-off (Standard)

FRONT SUSPENSION

Type of Suspension	Parabolic Springs
Number of springs	4
2 shock absorbers and front stabilizer.	

REAR AXLE & SUSPENSION

Option 1 :

RTH3312 combined with RADD-TR2	
Tandem Axle with Hub Reduction, consist of two spiral bevel single units.	
Differential lock inter axles and inter wheels , Two Shock absorbers and Rear Stabilizer as standard.	
Type of Suspension.....	Reinforced T- Ride Boogie
Type of Spring	Multi leaf – 9 leaf
Capacity	32Tons
Final reduction ratio	7.21: 1

Option 2 :

RTH3815 combined with RADD-TR3

Tandem Axle with Hub Reduction, consist of two spiral bevel single units.	
Differential lock inter axles and inter wheels , Two Shock absorbers and Rear Stabilizer as standard.	
Type of Suspension.....	Reinforced T- Ride Boogie
Type of Spring	Parabolic – 4 leaf
Capacity	38 Tons
Final reduction ratio	7.22 : 1

BRAKE SYSTEM

VOLVO BRAKE-ZV (Drum Brake Z-Cam)

Dual Circuit Full Air Brake System with Automatic Adjustment and Asbestos free liners.	
Auxiliary Parking Brake fitted as standard.	
Parking Brake	Manually Operated Parking Brake with Electric Button.
ABS (Antilock Braking System) and EBS (Electronic Braking System) fitted as standard.	

FUEL TANK

Right hand fitted Steel Fuel Tank with capacity 315 liters.

AD-BLUE TANK (EURO-4 ONLY)

Left hand fitted plastic fuel tank capacity 48 liters.

FRAME

Constant frame width of 850 mm behind the cab made of high tensile steel section height of 300 mm
flange width 90 mm. Web and flange thickness are 8 mm. Inner liner thickness 5 mm installed as standard.
All members are cold riveted.

TYRE OPTIONS

325/95R24 Tubeless tire Off Road Pattern.
Wheels : 8.5"x 24"
Spare wheel same type as front wheel.

STANDARD ACCESSORIES

Exterior :

Air Drier
Backup Alarm
Exterior Smoke Coloured Front Sun Visor
Front Close View Mirror
One Front Towing Devices
Steel Headlamp Protection
Steel Front Bumper
Two LED Beacon Lamp
Two Roof Mounted Single Tone Chrome Air Horn
Vertical pipe muffler outlet
V-Shape day Running Light

Interior :

Audio System
Basic Cruise Control
Driver seat with regular air suspension and arm rest
Electrical manually controlled air conditioning
Electrical window lift
Fire Extinguisher 3 kg
Mechanically adjustable steering wheel
Manual door locking
Medium level instrument cluster
12" High Resolution Colour Multi Information Display Instrument Cluster
Passenger seat
RED Safety belt
Rubber floor mats
Standard toolkit with 20T Hydraulic Jack
Tachograph
Telematic Gateway with 4G Modem and WLAN

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FMX 460 66R

TECHNICAL SPECIFICATION

Wheelbase	4300 mm
Front Axle Capacity	10000 kg
Rear Axles Capacity	32000 kg
Gross Vehicle Weight	42000 kg

ENGINE

VOLVO D13A-460 TURBOCHARGED, INTERCOOLER, EURO-4 EMISSION STANDARD (EU4SCR) BIODIESEL B30 CERTIFIED.

Max Output	460 hp (338 Kw) @ 1400 – 1900 rpm
Max Torque	2300 Nm @ 1000-1400 rpm
Number of Cylinders	6
Displacement	12.8 dm3
Cylinder bore x stroke	131 x 158 mm
Compression ratio	17.8 : 1
Economy rev. band	1000 – 1500 rpm
Volvo Engine Brake+ (EBR-VEB+) with maximum 375 Kw Braking Power @ 2300 rpm.	

TRANSMISSION

VOLVO ATO2612

12 Speed electronically controlled splitter and range change gearbox with automated Gear Changing system with Overdrive, fitted with a Power Take Off and Oil Cooler as standard.	
Special heavy duty package (TRAP-HD) concern to reinforce Split Synchronizer, Main Gear Dog Clutches and Counter shaft brake.	
Maximum Torque :	2600 Nm
Top Gear	Overdrive
Number of forward gears	12
Number of reverse gears	4
Forward ratio range	11.73-0.78 : 1
Reverse ratio range	13.73-2.48 :1

CAB

Single day Cab
Air Conditioning
Red Safety Belts
Emergency Roof Hatch.

CLUTCH

Single, push-type clutch with large dry friction disc which offer good durability
Disc diameter 430 mm. Pneumatic operated electronically controlled.

POWER TAKE-OFF

High speed Gearbox Driven Power Take-off (Standard)
Engine Power Take-off (Optional)

TRANSFER CASE

Single stage distribution gearbox with Automatic Traction Control

FRONT AXLE & SUSPENSION

Type of Axle	FAA11
Type of Suspension	Parabolic Springs
Number of springs	3
Capacity	10 Tons
2 shock absorbers and front stabilizer.	

REAR AXLE & SUSPENSION

RTH3312 combined with RADD-TR2

Tandem Axle with Hub Reduction, consist of two spiral bevel single units.	
Differential lock inter axles and inter wheels, Two Shock absorbers and Rear Stabilizer as standard.	
Type of Suspension	T- Ride Boogie
Type of Spring	Multi leaf – 11 leaf
Capacity	32 Tons
Final reduction ratio	7.21: 1

BRAKE SYSTEM

VOLVO BRAKE-ZV (Drum Brake Z-Cam)

Dual Circuit Full Air Brake System with Automatic Adjustment and Asbestos free liners.	
Auxiliary Parking Brake fitted as standard.	
Parking Brake	Manually Operated Parking Brake with Electric Button.
ABS (Antilock Braking System) and EBS (Electronic Braking System) fitted as standard.	

FUEL TANK

Right hand fitted Steel Fuel Tank with capacity 315 liters.

AD-BLUE TANK (EURO-4 ONLY)

Left hand fitted plastic fuel tank capacity 48 liters.

FRAME

Constant frame width of 850 mm behind the cab made of high tensile steel section height of 300 mm
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All members are cold riveted.

TYRE OPTIONS

325/95R24 Tubeless tire Off Road Pattern.
Wheels : 8.5"x 24"
Spare wheel same type as front wheel.

STANDARD ACCESSORIES

Exterior :

Air Drier
Backup Alarm
Exterior Smoke Coloured Front Sun Visor
Front Close View Mirror
One Front Towing Devices
Steel Headlamp Protection
Steel Front Bumper
Two LED Beacon Lamp
Two Roof Mounted Single Tone Chrome Air Horn
Vertical pipe muffler outlet
V-Shape day Running Light

Interior :

Audio System
Basic Cruise Control
Driver seat with regular air suspension and arm rest
Electrical manually controlled air conditioning
Electrical window lift
Fire Extinguisher 3 kg
Mechanically adjustable steering wheel
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FMX 460 84R

TECHNICAL SPECIFICATION

Wheelbase	4900 mm (OB/Mineral) ; 6000 mm (Coal)
Front Axle Capacity	20000 kg
Rear Axles Capacity	32000 kg / 38000 kg
Gross Vehicle Weight	52000 kg / 58000 kg

ENGINE

VOLVO D13A-460 TURBOCHARGED, INTERCOOLER, EURO-4 EMISSION STANDARD (EU4SCR) BIODIESEL B30 CERTIFIED.

Max Output	460 hp (338 Kw) @ 1400 – 1900 rpm
Max Torque	2300 Nm @ 1000-1400 rpm
Number of Cylinders	6
Displacement	12.8 dm3
Cylinder bore x stroke	131 x 158 mm
Compression ratio	17.8 : 1
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Single, push-type clutch with large dry friction disc which offer good durability
Disc diameter 430 mm. Pneumatic operated electronically controlled.

POWER TAKE-OFF & HYDRAULIC PUMP

High speed Gearbox Driven Power Take-off (Standard)

TRANSFER CASE

Single stage distribution gearbox with Automatic Traction Control

REAR AXLE & SUSPENSION

Option 1 :

KTH3312 combined with RADD-TR2	
Tandem Axle with Hub Reduction, consist of two spiral bevel single units.	
Differential lock inter axles and inter wheels , Two Shock absorbers and Rear Stabilizer as standard.	
Type of Suspension	Reinforced T-Ride Boogie
Type of Spring	Multi leaf – 9 leaf
Capacity	32 Tons
Final reduction ratio	7.21: 1

Option 2 :

RTH3815 combined with RADD-TR3

Tandem Axle with Hub Reduction, consist of Two spiral bevel single units.	
Differential lock inter axles and inter wheels, Two Shock absorbers and Rear Stabilizer as standard.	
Type of Suspension	Reinforced T- Ride Boogie
Type of Spring	Parabolic – 4 leaf
Capacity	38 Tons
Final reduction ratio	7.22 : 1

FRONT SUSPENSION

Type of Suspension	Parabolic Springs
Number of springs	4
2 shock absorbers and front stabilizer.	

BRAKE SYSTEM

VOLVO BRAKE-ZV (Drum Brake Z-Cam)

Dual Circuit Full Air Brake System with Automatic Adjustment and Asbestos free liners.	
Auxiliary Parking Brake fitted as standard.	
Parking Brake	Manually Operated Parking Brake with Electric Button.
ABS (Antilock Braking System) and EBS (Electronic Braking System) fitted as standard.	

FUEL TANK

Right hand fitted Steel Fuel Tank with capacity 315 liters.

AD-BLUE TANK (EURO-4 ONLY)

Left hand fitted plastic fuel tank capacity 48 liters.

FRAME

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TYRE OPTIONS

325/95R24 Tubeless tire Off Road Pattern.
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Spare wheel same type as front wheel.

STANDARD ACCESSORIES

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